

# **Meta-analysis of the prevalence of anxiety disorders in mainland China from 2000 to 2015**

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## **Legends of Supplementary Information**

**Fig S1:** Gender difference in the current prevalence of ADs and their subtypes

- a.** Gender difference in current prevalence of anxiety disorders
- b.** Gender difference in current prevalence of agoraphobia
- c.** Gender difference in current prevalence of generalized anxiety disorder
- d.** Gender difference in current prevalence of non-specific anxiety disorder
- e.** Gender difference in current prevalence of obsessive-compulsive disorder
- f.** Gender difference in current prevalence of panic disorder
- g.** Gender difference in current prevalence of post-traumatic stress disorder
- h.** Gender difference in current prevalence of social phobia
- i.** Gender difference in current prevalence of specific phobia

**Fig S2:** Gender difference in the lifetime prevalence of ADs and their subtypes

- a.** Gender difference in lifetime prevalence of anxiety disorders
- b.** Gender difference in lifetime prevalence of agoraphobia
- c.** Gender difference in lifetime prevalence of generalized anxiety disorder
- d.** Gender difference in lifetime prevalence of obsessive-compulsive disorder
- e.** Gender difference in lifetime prevalence of panic disorder
- f.** Gender difference in lifetime prevalence of post-traumatic stress disorder
- g.** Gender difference in lifetime prevalence of social phobia
- h.** Gender difference in lifetime prevalence of specific phobia

**Fig S3:** Location difference in the current prevalence of ADs and their subtypes

- a.** Location difference in current prevalence of anxiety disorders
- b.** Location difference in current prevalence of agoraphobia
- c.** Location difference in current prevalence of generalized anxiety disorder
- d.** Location difference in current prevalence of non-specific anxiety disorder
- e.** Location difference in current prevalence of obsessive-compulsive

disorder

- f.** Location difference in current prevalence of panic disorder
- g.** Location difference in current prevalence of post-traumatic stress disorder
- h.** Location difference in current prevalence of social phobia
- i.** Location difference in current prevalence of specific phobia

**Fig S4:** Location difference in the lifetime prevalence of ADs and their subtypes

- a.** Location difference in lifetime prevalence of anxiety disorders
- b.** Location difference in lifetime prevalence of agoraphobia
- c.** Location difference in lifetime prevalence of generalized anxiety disorder
- d.** Location difference in lifetime prevalence of obsessive-compulsive

disorder

- e.** Location difference in lifetime prevalence of panic disorder
- f.** Location difference in lifetime prevalence of post-traumatic stress disorder
- g.** Location difference in lifetime prevalence of social phobia
- h.** Location difference in lifetime prevalence of specific phobia

**Figure S5:** The geographical and territorial structure of mainland China

**Table S1:** Studies characteristics with the extracted prevalence of ADs in this meta-analysis

**Table S2:** Literature quality score scale for assessing risk of bias

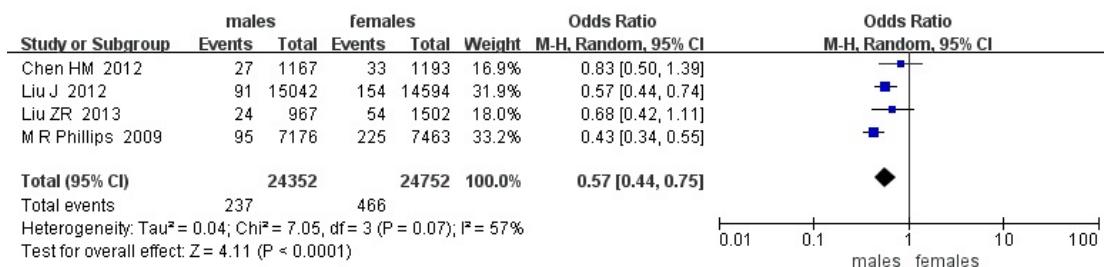
**Table S3:** Meta-regression for prevalence of Ads

**Table S4:** The results of sensitivity analysis **a.** Results of sensitivity analysis: the results of sensitivity analysis in ADs and its subtypes **b.** Results of sensitivity analysis: the characteristics of the studies those influenced the pooled results

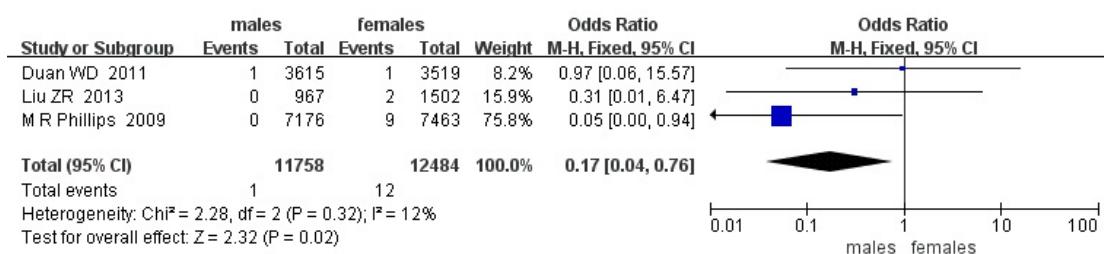
**Table S5:** Heterogeneity and publication bias of ADs

**Data S1:** The excluded studies in this meta-analysis

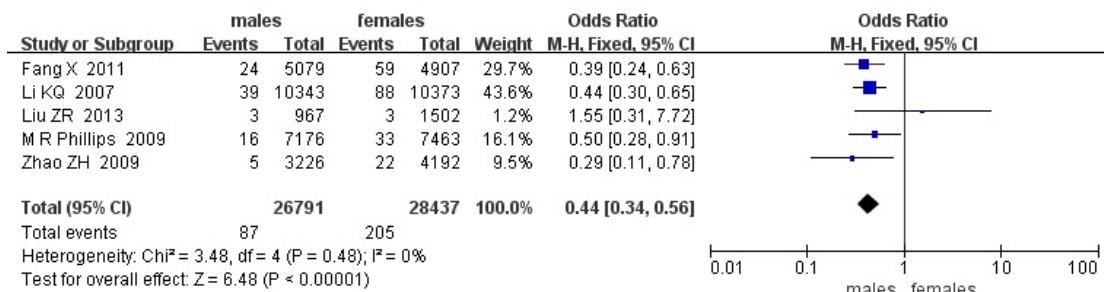
## Supplementary Information



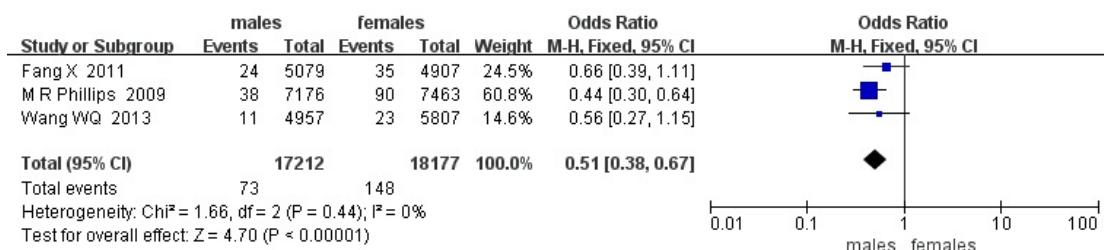
**Fig S1a.** Gender difference in current prevalence of anxiety disorders



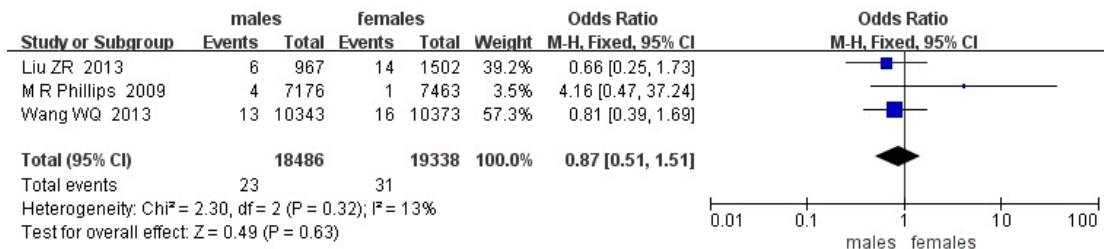
**Fig S1b.** Gender difference in current prevalence of agoraphobia.



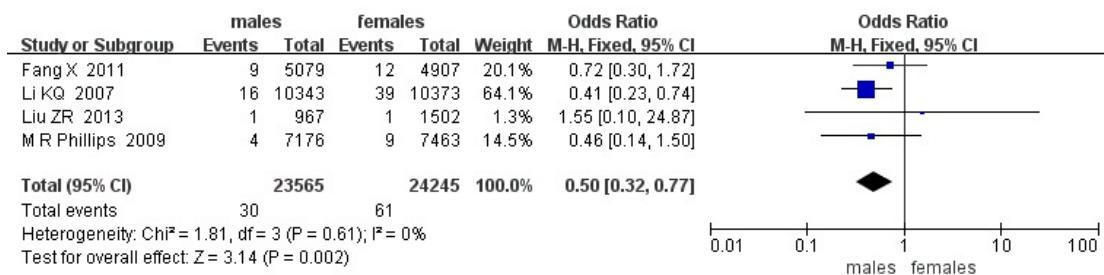
**Fig S1c.** Gender difference in current prevalence of generalized anxiety disorder.



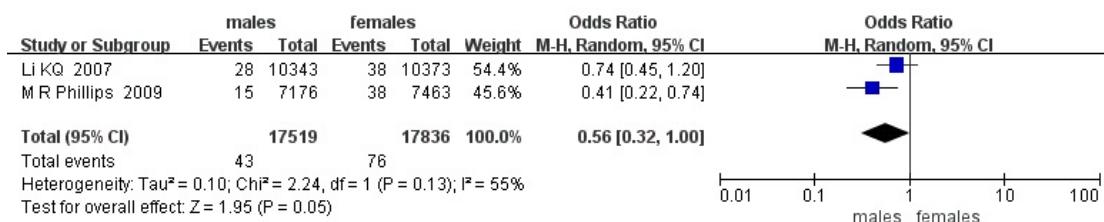
**Fig S1d.** Gender difference in current prevalence of non-specific anxiety disorder.



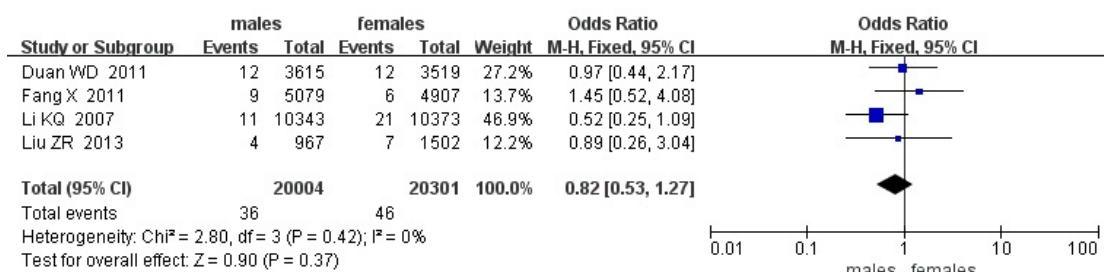
**Fig S1e.** Gender difference in current prevalence of obsessive-compulsive disorder.



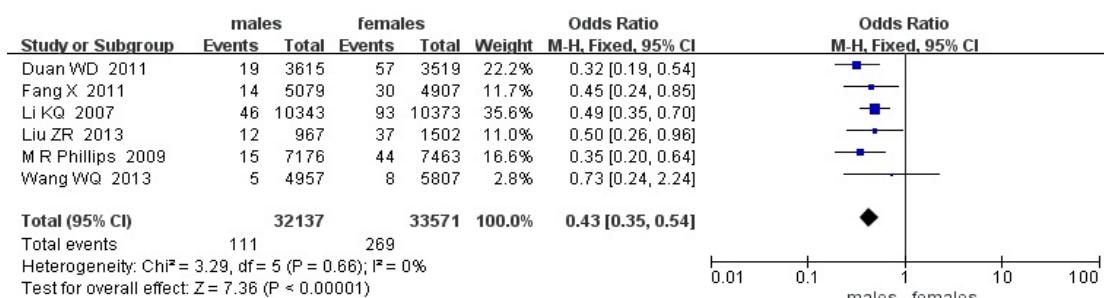
**Fig S1f.** Gender difference in current prevalence of panic disorder.



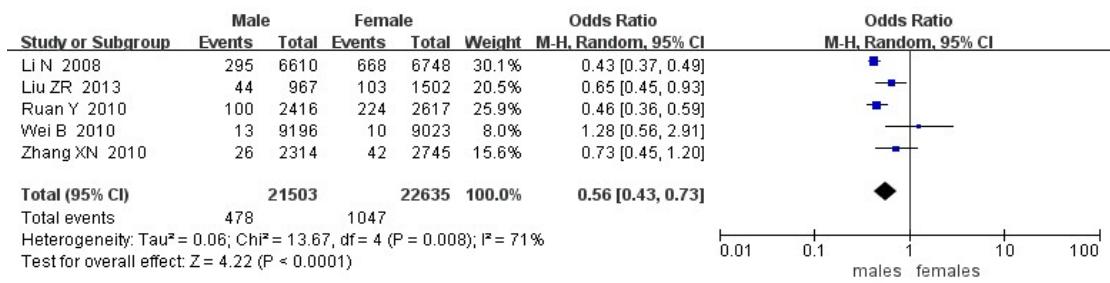
**Fig S1g.** Gender difference in current prevalence of post-traumatic stress disorder.



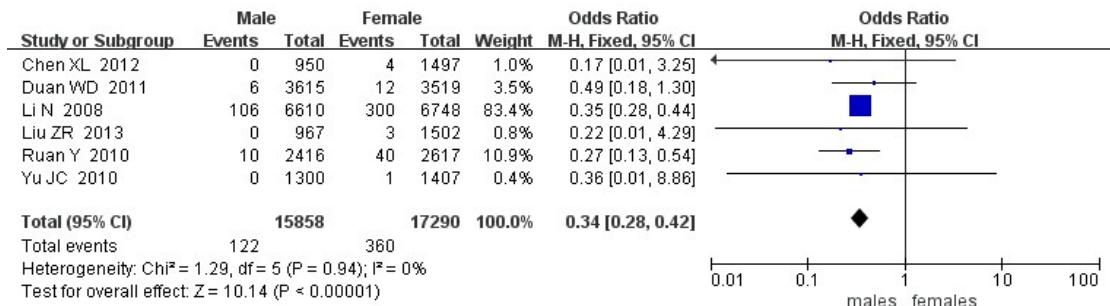
**Fig S1h.** Gender difference in current prevalence of social phobia.



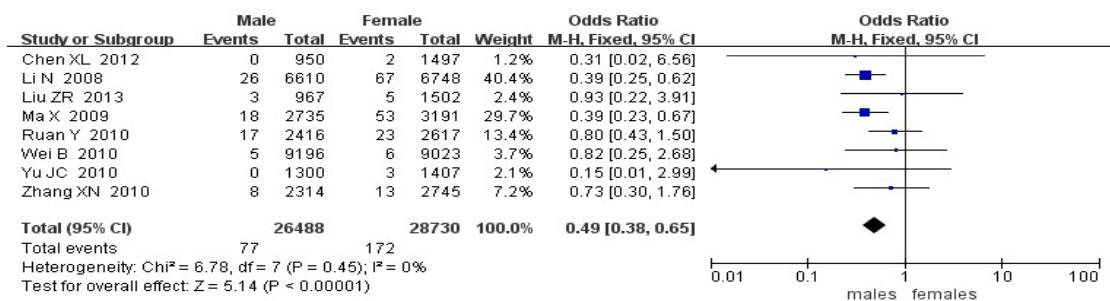
**Fig S1i.** Gender difference in current prevalence of specific phobia.



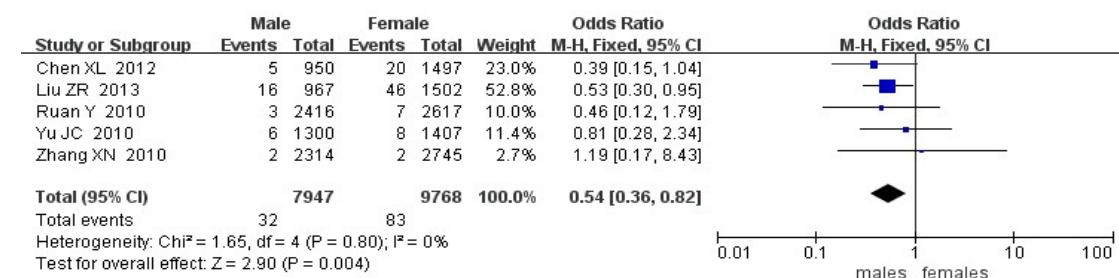
**Fig S2a.** Gender difference in lifetime prevalence of anxiety disorders



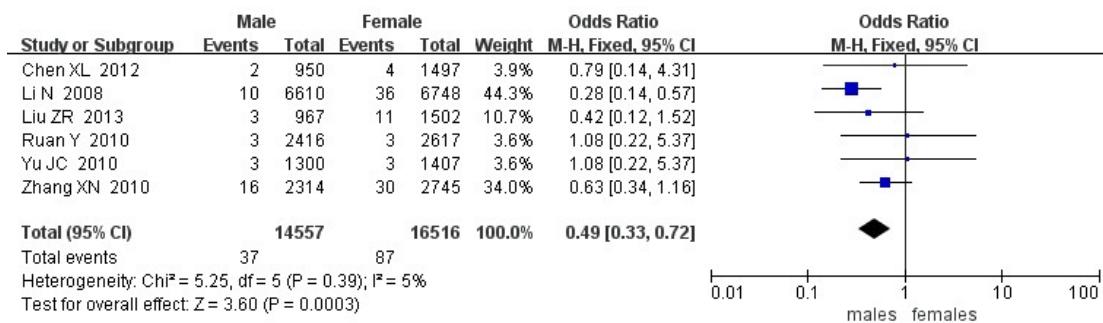
**Fig S2b.** Gender difference in lifetime prevalence of agoraphobia.



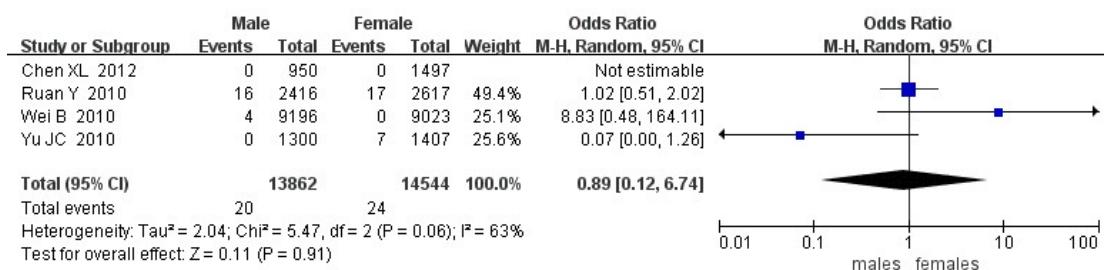
**Fig S2c.** Gender difference in lifetime prevalence of generalized anxiety disorder.



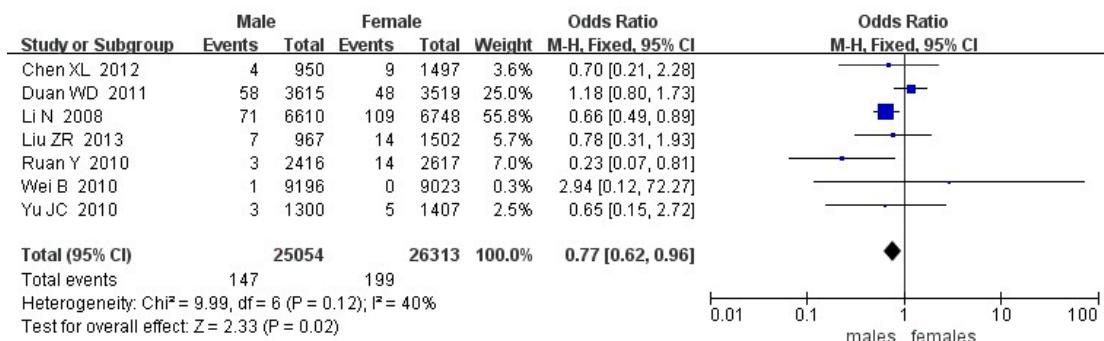
**Fig S2d.** Gender difference in lifetime prevalence of obsessive-compulsive disorder.



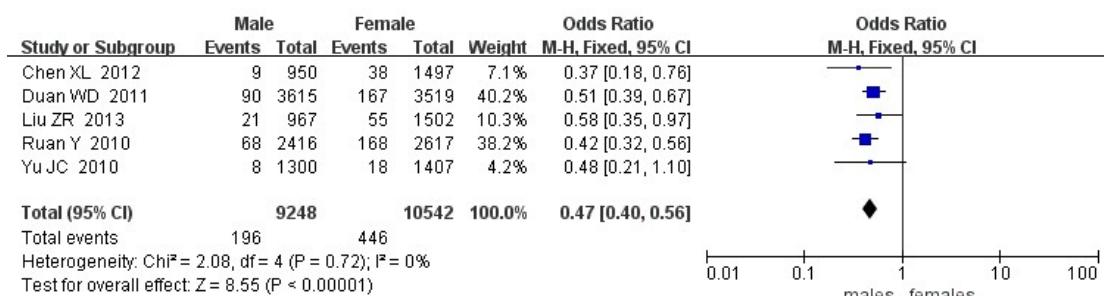
**Fig S2e.** Gender difference in lifetime prevalence of panic disorder.



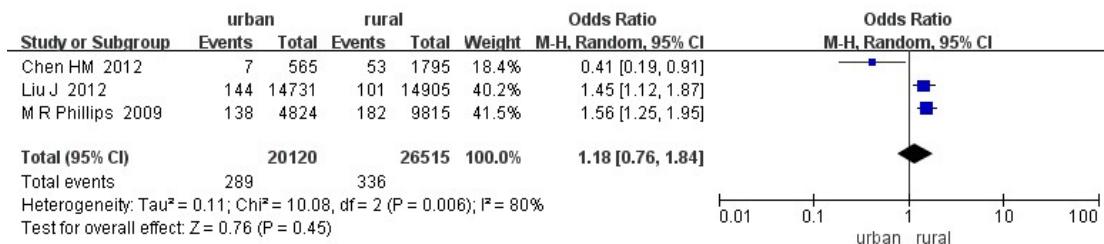
**Fig S2f.** Gender difference in lifetime prevalence of post-traumatic stress disorder.



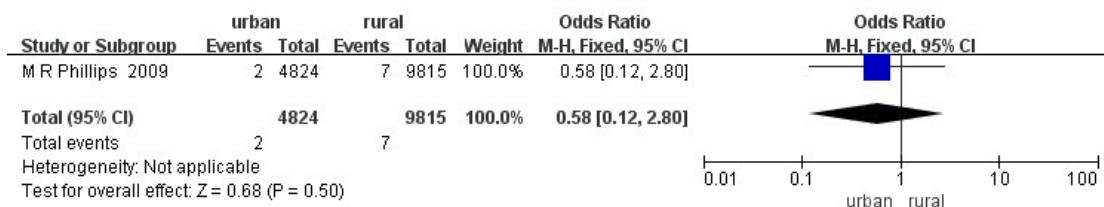
**Fig S2g.** Gender difference in lifetime prevalence of social phobia.



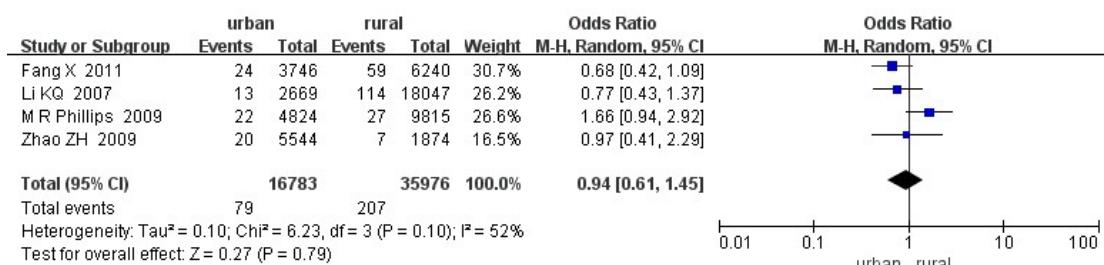
**Fig S2h.** Gender difference in lifetime prevalence of specific phobia.



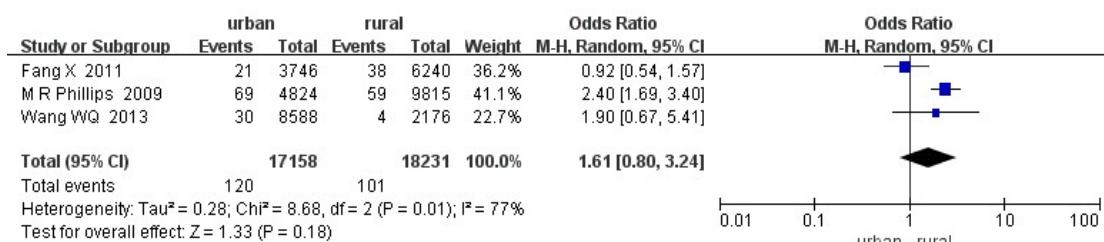
**Fig S3a.** Location difference in current prevalence of anxiety disorders



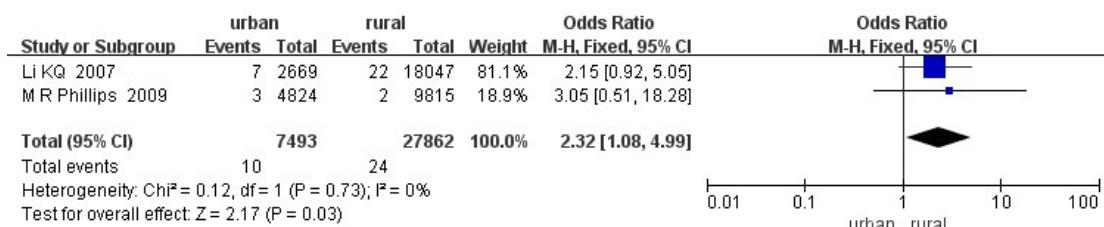
**Fig S3b.** Location difference in current prevalence of agoraphobia.



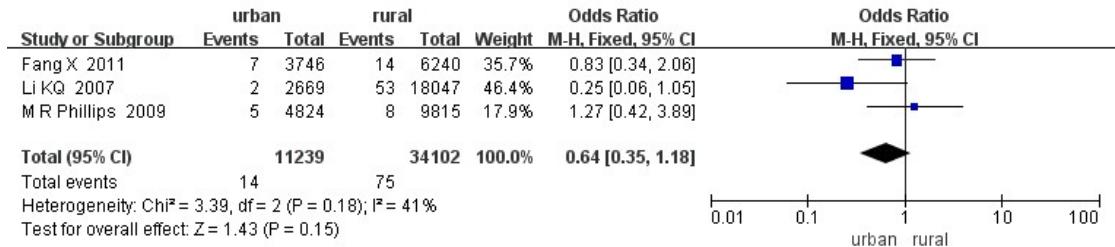
**Fig S3c.** Location difference in current prevalence of generalized anxiety disorder.



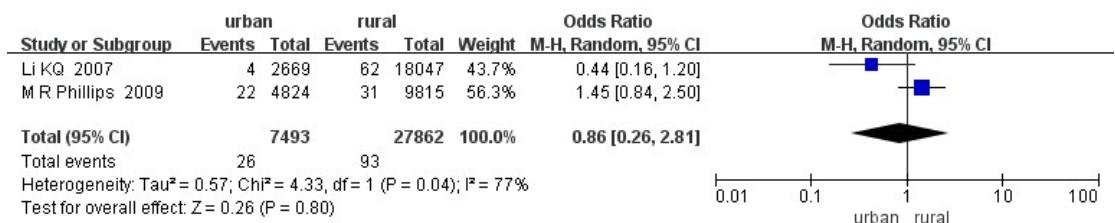
**Fig S3d.** Location difference in current prevalence of non-specific anxiety disorder.



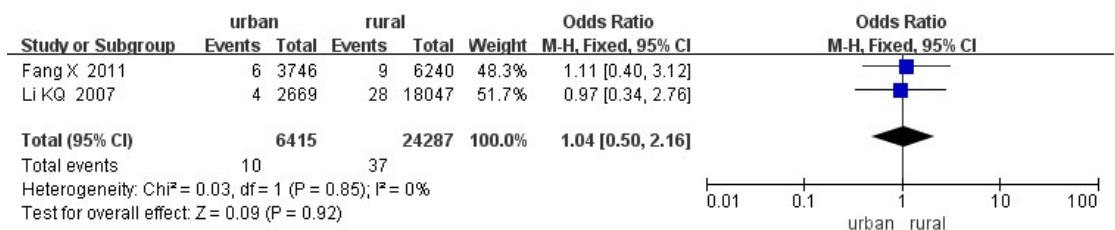
**Fig S3e.** Location difference in current prevalence of obsessive-compulsive disorder.



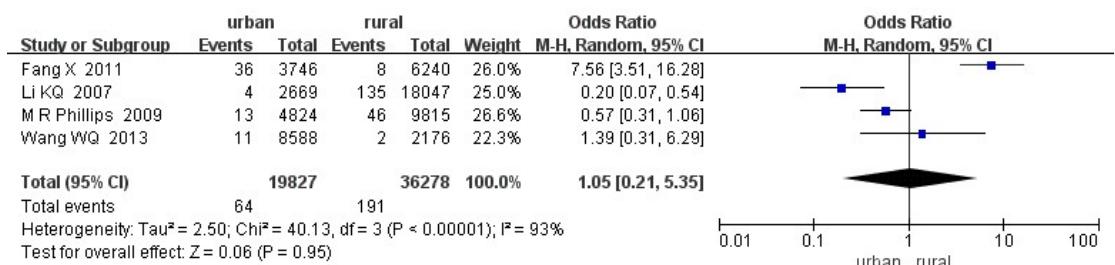
**Fig S3f.** Location difference in current prevalence of panic disorder.



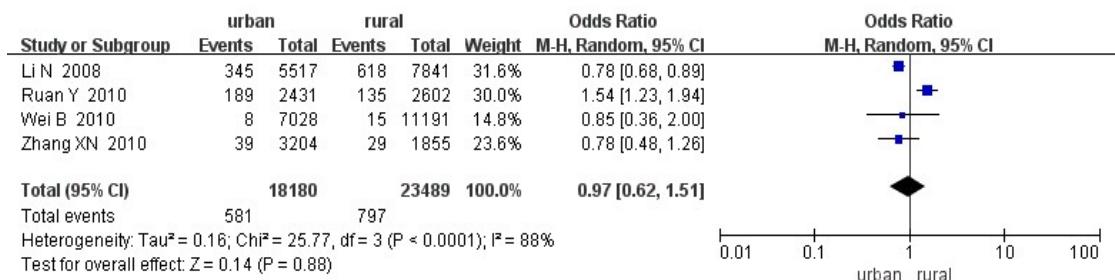
**Fig S3g.** Location difference in current prevalence of post-traumatic stress disorder.



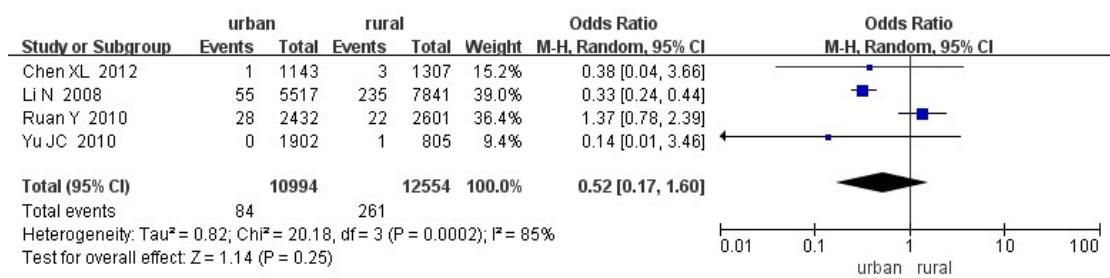
**Fig S3h.** Location difference in current prevalence of social phobia.



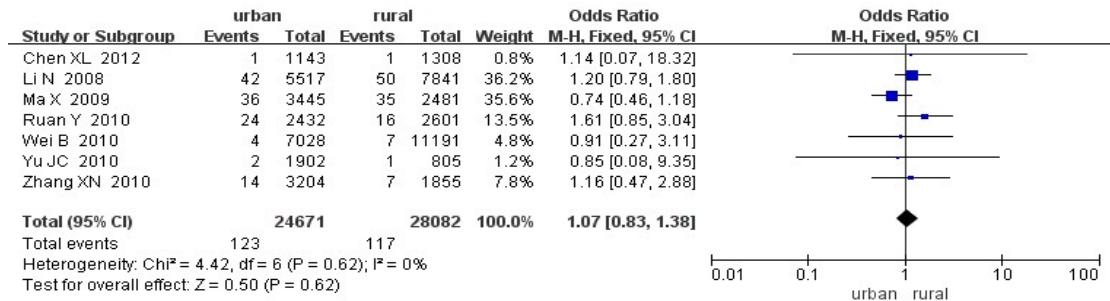
**Fig S3i.** Location difference in current prevalence of specific phobia.



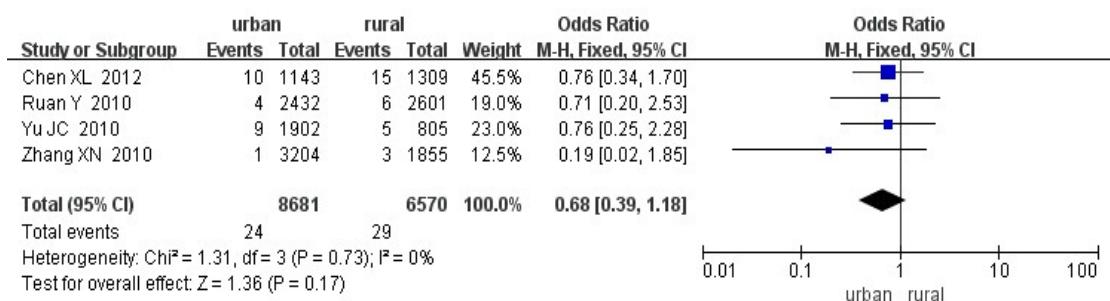
**Fig S4a.** Location difference in lifetime prevalence of anxiety disorders.



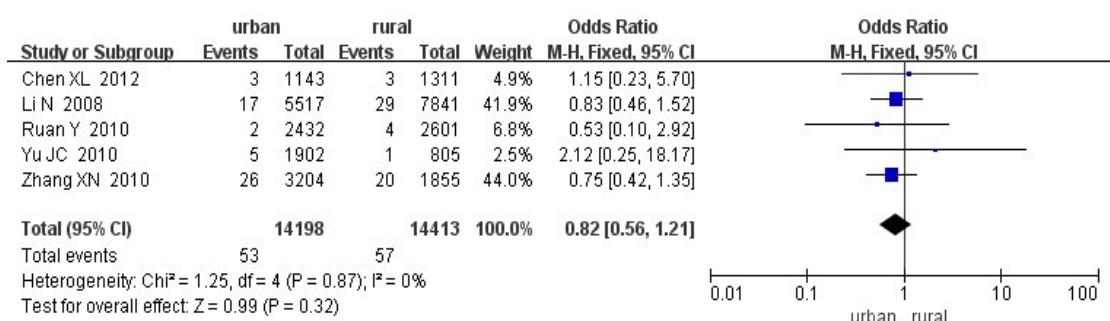
**Fig S4b.** Location difference in lifetime prevalence of agoraphobia.



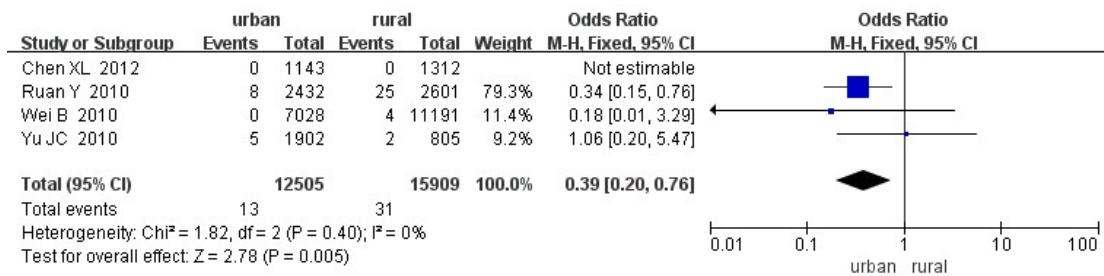
**Fig S4c.** Location difference in lifetime prevalence of generalized anxiety disorder.



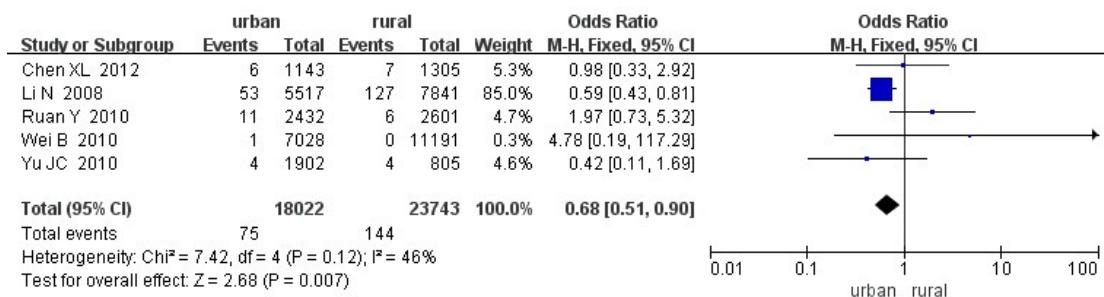
**Fig S4d.** Location difference in lifetime prevalence of obsessive-compulsive disorder.



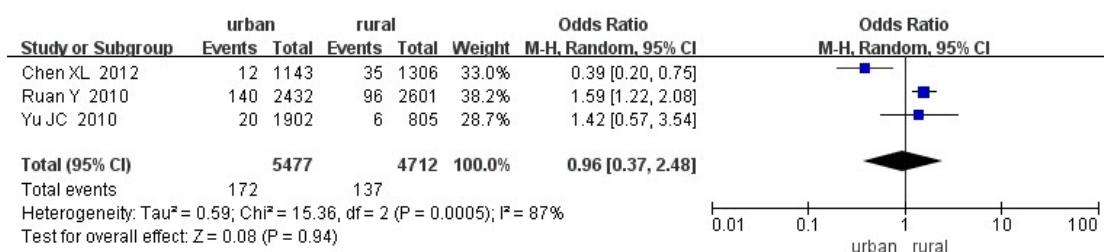
**Fig S4e.** Location difference in lifetime prevalence of panic disorder.



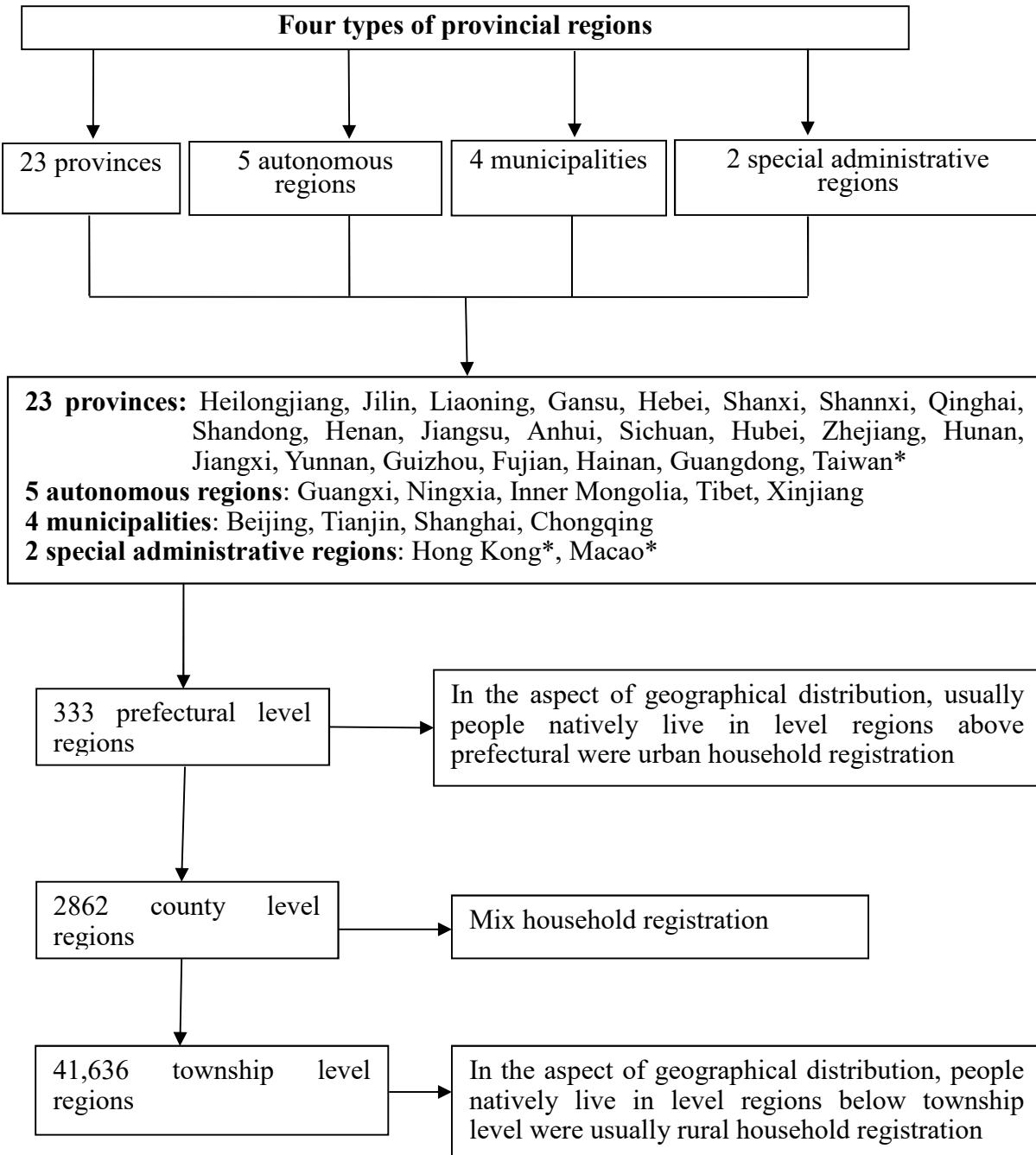
**Fig S4f.** Location difference in lifetime prevalence of post-traumatic stress disorder



**Fig S4g.** Location difference in lifetime prevalence of social phobia.



**Fig S4h.** Location difference in lifetime prevalence of specific phobia.



**Figure S5.** The geographical and territorial structure of mainland China

Administrative layer structure: Township level regions are directly affiliated to the corresponding county level regions; the county level regions are directly affiliated to the corresponding prefectural level regions; and the prefectural level regions are directly affiliated to the corresponding provincial region.

\* The present study was conducted in mainland China (not including Hong Kong, Macao and Taiwan).

**Table S1.** Studies characteristics with the extracted prevalence of ADs in this meta-analysis

Subtypes	Study	Location	Year	Sample			Current/Life-time prevalence (%)				
				overall	male/female	urban/rural	overall (n)	male (n)	female (n)	urban (n)	rural (n)
M R Phillips 2009	Zhejiang	2001	14639	7176/7463	4824/9815	-	21.86/- (320/-)	13.24/- (95/-)	30.15/- (225/-)	28.61/- (138/-)	18.54/- (182/-)
	Qinghai	2002	11178	5652/5526	2632/8546	-	19.59/- (219/-)	-	-	-	-
	Shandong	2004	22718	10457/12261	5660/17059	-	30.77/- (699/-)	-	-	-	-
	Gansu	2005	10249	5517/4730	1645/8604	-	29.95/- (307/-)	-	-	-	-
	Shandong	2005	4776	2211/2565	2380/2396	-	39.15/- (187/-)	-	-	-	-
Lee S 2007	Beijing/ Shanghai	2001	1628	-	-	-	-/47.91 (-/78)	-	-	-	-
Liu SM 2012	Tibet	2003	1756	-	-	-	18.79/19.36 (33/34)	-	-	-	-
Li KQ 2007	Hebei	2004	20716	10343/10373	2669/18047	-	43.30/- (897/-)	-	-	-	-
Li N 2008	Liaoning	2004	13358	6610/6748	5517/7841	-	22.23/72.09 (297/963)	-/44.63 (-/295)	-/98.99 (-/668)	-/62.53 (-/345)	-/78.82 (-/618)
Ruan Y 2010	Yunnan	2005	5033	2416/2617	2431/2602	-	26.43/64.38 (133/324)	-/41.39 (-/100)	-/85.59 (-/224)	-/77.71 (-/189)	-/51.88 (-/135)
Anxiety disorders	Zhang XN 2010	Liaoning	2007	5059	2314/2745	3204/1855	-/13.44 (-/68)	-/11.24 (-/26)	-/15.30 (-/42)	-/12.17 (-/39)	-/15.63 (-/29)
Wei B 2010	Guangxi	2007	18219	9196/9023	7028/11191	-	1.26/1.26 (23/23)	-/1.41 (-/13)	-/1.11 (-/10)	-/1.14 (-/8)	-/1.34 (-/15)
Chen HM 2012	Hebei	2010	2360	1167/1193	565/1795	-	25.42/29.66 (60/70)	23.14/- (27/-)	27.66/- (33/-)	12.39/- (7/-)	29.53/- (53/-)
Liu ZR 2013	Beijing	2010	2469	967/1502	-	-	31.59/59.54 (78/147)	24.82/45.50	35.95/68.58	-	-
Ma X 2012	Beijing	2010	16032	-	-	-	31.87/43.41 (511/696)	-	-	-	-
Wang WQ 2013	Fujian	2010	10764	4957/5807	8588/2176	-	5.57/7.90 (60/85)	-	-	-	-
Liu J 2012	Henan	2011	29636	15042/14594	14731/14905	-	8.27/10.87 (245/322)	6.05/- (91/-)	10.55/- (154/-)	9.78/- (144/-)	6.78/- (101/-)
Lu DY 2015	Shandong	2011	2373	1354/1019	-	-	5.48/5.90 (13/14)	-	-	-	-
Li T 2013	Ningxia	2012	4156	1766/2390	0/41576	-	57.51/172.52 (239/717)	-	-	-	-

Subtypes	Study	Location	Year	Sample			Current/Life-time prevalence (%)				
				overall	male/female	urban/rural	overall (n)	male (n)		female (n)	
								-	-	-	-
M R Phillips 2009	Zhejiang	2001	14639	7176/7463	4824/9815	3.35/- (49/-)	2.23/- (16/-)	4.42/- (33/-)	4.56/- (22/-)	2.75/- (27/-)	-
	Qinghai	2002	11178	5652/5526	2632/8546	14.49/- (162/-)	-	-	-	-	-
	Shandong	2004	22718	10457/12261	5660/17059	6.95/- (158/-)	-	-	-	-	-
	Gansu	2005	10249	5517/4730	1645/8604	6.44/- (66/-)	-	-	-	-	-
	Shandong	2005	4776	2211/2565	2380/2396	31.41/- (150/-)	-	-	-	-	-
Lee S 2007	Beijing/S hanghai			2001	5201	-	-	-/8.08 (-/42)	-	-	-
	Ma X 2009	Beijing	2003	5926	2735/3191	3445/2481	-/11.98 (-/71)	-/6.58 (-/18)	-/16.60 (-/53)	-/10.45 (-/36)	-/14.11 (-/35)
Liu SM 2012	Tibet	2003	1756	-	-	-	-/5.69 (-/10)	-	-	-	-
Li KQ 2007	Hebei	2004	20716	10343/10373	2669/18047	6.13/6.13 (127/127)	3.77/- (39/-)	8.48/- (88/-)	4.87/- (13/-)	6.32/- (114/-)	-
Li N 2008	Liaoning	2004	13358	6610/6748	5517/7841	3.07/6.96 (41/93)	-/3.93 (-/26)	-/9.93 (-/67)	-/7.61 (-/42)	-/6.38 (-/50)	-
Generalized anxiety disorder	Ruan Y 2010	Yunnan	2005	5033	2416/2617	2432/2601	1.59/7.95 (8/40)	-/7.04 (-/17)	-/8.79 (-/23)	-/9.87 (-/24)	-/6.150 (-/16)
Zhao ZH 2009	Guangdong			2006	7418	3226/4192	5544/1874	3.64/3.64 (27/27)	1.55/- (5/-)	5.25/- (22/-)	3.61/- (20/-)
	Zhang XN 2010	Liaoning	2007								
Wei B 2010	Guangxi	2007	18219	9196/9023	7028/11191	0.60/0.60 (11/11)	-/0.54 (-/5)	-/0.66 (-/6)	-/0.57 (-/4)	-/0.63 (-/7)	-
Yu JC 2010	Guangdong			2009	2707	1300/1407	1902/805	0.74/1.11 (2/3)	-/0.00 (-/0)	-/2.13 (-/3)	-/1.05 (-/2)
	Fang X 2011	Fujian	2009								
Chen XL 2012	Shannxi	2010	2447	950/1497	1143/1308	0.41/0.82 (1/2)	-/0.00 (-/0)	-/1.34 (-/2)	-/0.87 (-/1)	-/0.77 (-/1)	-
Liu ZR 2013	Beijing	2010	2469	967/1502	-	2.43/3.24 (6/8)	3.10/3.10 (3/3)	2.00/3.33 (3/5)	-	-	-
Wang WQ 2013	Fujian	2010	10764	4957/5807	8588/2176	0.46/0.46 (5/5)	-	-	-	-	-
Liu J 2012	Henan	2011	29636	15042/14594	14731/14905	5.1/6.88 (151/204)	-	-	-	-	-
Lu DY 2015	Shandong	2011	2373	1354/1019	-	4.64/4.64 (11/11)	-	-	-	-	-

Subtypes	Study	Location	Year	Sample			Current/Life-time prevalence (%)				
				overall	male/female	urban/rural	overall (n)	male (n)	female (n)	urban (n)	rural (n)
M R Phillips 2009	Zhejiang	2001	14639	7176/7463	4824/9815	-	8.74/- (128/-)	5.30/- (38/-)	12.06/- (90/-)	14.30/- (69/-)	6.01/- (59/-)
	Qinghai	2002	11178	5652/5526	2632/8546	-	3.22/- (36/-)	-	-	-	-
	Shandong	2004	22718	10457/12261	5660/17059	-	21.70/- (493/-)	-	-	-	-
	Gansu	2005	10249	5517/4730	1645/8604	-	14.15/- (145/-)	-	-	-	-
Non-specific anxiety	Li KQ	2007	Hebei	20716	10343/10373	2669/18047	21.09/21.24 (437/440)	-	-	-	-
disorder	Fang X	2011	Fujian	9986	5079/4907	3746/6240	5.91/- (59/-)	4.73/- (24/-)	7.13/- (35/-)	5.61/- (21/-)	6.09/- (38/-)
Wang WQ 2013	Zhejiang	2001	14639	7176/7463	4824/9815	-	0.89/- (13/-)	0.56/- (4/-)	1.21/- (9/-)	1.04/- (5/-)	0.82/- (8/-)
	Qinghai	2002	11178	5652/5526	2632/8546	-	0.54/- (6/-)	-	-	-	-
M R Phillips 2009	Shandong	2004	22718	10457/12261	5660/17059	-	0.48/- (11/-)	-	-	-	-
	Gansu	2005	10249	5517/4730	1645/8604	-	1.76/- (18/-)	-	-	-	-
	Shandong	2005	4776	2211/2565	2380/2396	-	1.88/- (9/-)	-	-	-	-
	Lee S	2007	Beijing/ Shanghai	5201	-	-	~4.04 (~21)	-	-	-	-
Panic disorder	Liu SM	2012	Tibet	1756	-	-	~8.54 (~15)	-	-	-	-
	Li KQ	2007	Hebei	20716	10343/10373	2669/18047	2.65/3.57 (55/74)	1.55/- (16/-)	3.76/- (39/-)	0.75/- (2/-)	2.94/- (53/-)
	Li N	2008	Liaoning	13358	6610/6748	5517/7841	1.72/3.44 (23/46)	~1.51 (~10)	~5.33 (~36)	~3.08 (~17)	~3.70 (~29)
	Ruan Y	2010	Yunnan	5033	2416/2617	2432/2601	0.20/1.19 (1/6)	~1.24 (~3)	~1.15 (~3)	~0.82 (~2)	~1.54 (~4)
Zhao ZH 2009	Zhang XN 2010	Guangdong	2006	7418	3226/4192	5544/1874	1.48/3.24 (11/24)	-	-	-	-
	Liaoning	2007	5059	2314/2745	3204/1855	-	~9.09 (~46)	~6.91 (~16)	~10.93 (~30)	~8.11 (~26)	~10.78 (~20)
Yu JC	2010	Guangdong	2009	2707	1300/1407	1902/805	1.11/2.22 (3/6)	~2.31 (~3)	~2.13 (~3)	~2.63 (~5)	~1.24 (~1)

Subtypes	Study	Location	Year	Sample			Current/Life-time prevalence (%)				
				overall	male/female	urban/rural	overall (n)	male (n)	female (n)	urban (n)	rural (n)
	Fang X 2011	Fujian	2009	9986	5079/4907	3746/6240	2.10/- (21/-)	1.77/- (9/-)	2.45/- (12/-)	1.87/- (7/-)	2.24/- (14/-)
	Chen XL 2012	Shannxi	2010	2447	950/1497	1143/1311	0.41/2.45 (1/6)	-/2.11 (-2)	-/2.67 (-4)	-/2.62 (-3)	-/2.30 (-3)
Panic	Liu ZR 2013	Beijing	2010	2469	967/1502	-	0.81/5.67 (2/14)	1.03/3.10 (1/3)	0.67/7.32 (1/11)	-	-
disorder	Wang WQ 2013	Fujian	2010	10764	4957/5807	8588/2176	0.19/0.19 (2/2)	-	-	-	-
	Liu J 2012	Henan	2011	29636	15042/14594	14731/14905	0.37/0.44 (11/13)	-	-	-	-
	Li T 2013	Ningxia	2012	4156	1766/2390	0/41576	3.85/10.11 (16/42)	-	-	-	-
		Zhejiang	2001	14639	7176/7463	4824/9815	0.27/- (4/-)	-	-	-	-
M R Phillips 2009		Qinghai	2002	11178	5652/5526	2632/8546	0.00/- (0/-)	-	-	-	-
		Shandong	2004	22718	10457/12261	5660/17059	0.18/- (4/-)	-	-	-	-
		Gansu	2005	10249	5517/4730	1645/8604	1.17/- (12/-)	-	-	-	-
		Shandong	2005	4776	2211/2565	2380/2396	0.21/- (1/-)	-	-	-	-
	Lee S 2007	Beijing/Shan ghai	2001	5201	-	-	-/5.00 (-/26)	-	-	-	-
	Li KQ 2007	Hebei	2004	20716	10343/10373	2669/18047	1.54/1.64 (32/34)	1.06/- (11/-)	2.02/- (21/-)	1.50/- (4/-)	1.55/- (28/-)
	Li N 2008	Liaoning	2004	13358	6610/6748	5517/7841	4.79/13.48 (64/180)	-/10.74 (-/71)	-/16.15 (-/109)	-/9.61 (-/53)	-/16.20 (-/127)
Social phobia	Ruan Y 2010	Yunnan	2005	5033	2416/2617	2432/2601	0.99/3.38 (5/17)	-/1.24 (-3)	-/5.35 (-/14)	-/4.52 (-/11)	-/2.31 (-/6)
	Duan WD 2011	Guangdong	2005	7134	3615/3519	-	3.36/14.86 (24/106)	3.32/16.04 (12/58)	3.41/13.64 (12/48)	-	-
	Wei B 2010	Guangxi	2007	18219	9196/9023	7028/11191	0.05/0.05 (1/1)	-/0.11 (-1)	-/0.00 (-/0)	-/0.14 (-1)	-/0.00 (-/0)
	Yu JC 2010	Guangdong	2009	2707	1300/1407	1902/805	0.74/2.96 (2/8)	-/2.31 (-3)	-/3.55 (-5)	-/2.10 (-/4)	-/4.97 (-/4)
	Fang X 2011	Fujian	2009	9986	5079/4907	3746/6240	1.50/- (15/-)	1.77/- (9/-)	1.22/- (6/-)	1.60/- (6/-)	1.44/- (9/-)
	Chen XL 2012	Shannxi	2010	2447	950/1497	1143/1305	1.23/5.31 (3/13)	-/4.21 (-4)	-/6.01 (-/9)	-/5.25 (-/6)	-/5.36 (-/7)
	Liu ZR 2013	Beijing	2010	2469	967/1502	-	4.46/8.51 (11/21)	4.14/7.24 (4/7)	4.66/9.32 (7/14)	-	-
	Wang WQ 2013	Fujian	2010	10764	4957/5807	8588/2176	0.19/0.19 (2/2)	-	-	-	-
	Liu J 2012	Henan	2011	29636	15042/14594	14731/14905	0.3/0.3 (9/9)	-	-	-	-
	Li T 2013	Ningxia	2012	4156	1766/2390	0/41576	1.92/10.11 (8/42)	-	-	-	-

Subtypes	Study	Location	Year	Sample			Current/Life-time prevalence (%)				
				overall	male/female	urban/rural	overall (n)	male (n)	female (n)	urban (n)	rural (n)
M R Phillips 2009		Zhejiang	2001	14639	7176/7463	4824/9815	0.61/- (9/-)	0.00/- (0/-)	1.21/- (9/-)	0.41/- (2/-)	0.71/- (7/-)
		Qinghai	2002	11178	5652/5526	2632/8546	0.18/- (2/-)	-	-	-	-
		Shandong	2004	22718	10457/12261	5660/17059	0.04/- (1/-)	-	-	-	-
		Gansu	2005	10249	5517/4730	1645/8604	0.29/- (3/-)	-	-	-	-
		Shandong	2005	4776	2211/2565	2380/2396	0.00/- (0/-)	-	-	-	-
Lee S 2007	Beijing/Shan ghai		2001	5201	-	-	~0.00 (~0)	-	-	-	-
	Li KQ 2007	Hebei	2004	20716	10343/1033	2669/18047	0.39/0.43 (8/9)	-	-	-	-
	Li N 2008	Liaoning	2004	13358	6610/6748	5517/7841	8.46/30.39 (113/406)	~-16.04 (~106)	~44.46 (~300)	~9.97 (~55) (~235)	~29.97
	Ruan Y 2010	Yunnan	2005	5033	2416/2617	2432/2601	2.78/9.93 (14/50)	~-4.14 (~10)	~15.28 (~40)	~11.51 (~28)	~8.46 (~22)
	Duan WD 2011	Guangdong	2005	7134	3615/3519	-	0.28/2.52 (2/18)	0.28/1.66 (1/6) (1/12)	0.28/3.41	-	-
Agoraphobia	Yu JC 2010	Guangdong	2009	2707	1300/1407	1902/805	0.00/0.37 (0/1)	~0.00 (~0)	~0.71 (~1)	~0.00 (~0)	~1.24 (~1)
	Fang X 2011	Fujian	2009	9986	5079/4907	3746/6240	0.70/- (7/-)	-	-	-	-
	Chen XL 2012	Shannxi	2010	2447	950/1497	1143/1307	0.41/1.63 (1/4)	~0.00 (~0)	~2.67 (~4)	~0.87 (~1)	~2.30 (~3)
	Liu ZR 2013	Beijing	2010	2469	967/1502	-	0.81/1.22 (2/3)	0.00/0.00 (0/0)	1.33/2.00 (2/3)	-	-
	Wang WQ 2013	Fujian	2010	10764	4957/5807	8588/2176	0.19/0.19 (2/2)	-	-	-	-
	Liu J 2012	Henan	2011	29636	15042/14594	14731/14905	0.07/0.10 (2/3)	-	-	-	-
	Li T 2013	Ningxia	2012	4156	1766/2390	0/41576	1.68/7.70 (7/32)	-	-	-	-
	M R Phillips 2009	Zhejiang	2001	14639	7176/7463	4824/9815	4.03/- (59/-)	2.09/- (15/-)	5.90/- (44/-)	2.69/- (13/-)	4.69/- (46/-)
		Qinghai	2002	11178	5652/5526	2632/8546	0.00/- (0/-)	-	-	-	-
		Shandong	2004	22718	10457/12261	5660/17059	0.53/- (12/-)	-	-	-	-
		Gansu	2005	10249	5517/4730	1645/8604	2.93/- (30/-)	-	-	-	-
Specific phobia	Lee S 2007	Shandong	2005	4776	2211/2565	2380/2396	0.00/- (0/-)	-	-	-	-
		Beijing/Shan ghai	2001	5201	-	-	~25.96 (~135)	-	-	-	-
		Liu SM 2012	2003	1756	-	-	~5.13 (~9)	-	-	-	-
		Li KQ 2007	2004	20716	10343/10373	2669/18047	6.71/7.43 (139/154)	4.45/- (46/-)	8.94/- (93/-)	1.50/- (4/-)	7.48/- (135/-)

Subtypes	Study	Location	Year	Sample			Current/Life-time prevalence (%)				
				overall	male/female	urban/rural	overall (n)	male (n)	female (n)	urban (n)	rural (n)
Specific phobia	Ruan Y 2010	Yunnan	2005	5033	2416/2617	2432/2601	20.27/46.89 (102/236)	-/28.15 (-/68)	-/64.20 (-/168)	-/57.57 (-/140)	-/36.91 (-/96)
	Duan WD 2011	Guangdong	2005	7134	3615/3519	-	10.65/36.02 (76/257)	5.26/24.90 (19/90)	16.20/47.46 (57/167)	-	-
	Yu JC 2010	Guangdong	2009	2707	1300/1407	1902/805	5.17/9.60 (14/26)	-/6.15 (-/8)	-/12.79 (-/18)	-/10.52 (-/20)	-/7.45 (-/6)
	Fang X 2011	Fujian	2009	9986	5079/4907	3746/6240	4.41/- (44/-)	2.76/- (14/-)	6.11/- (30/-)	9.61/- (36/-)	1.28/- (8/-)
	Chen XL 2012	Shannxi	2010	2447	950/1497	1143/1306	10.63/19.21 (26/47)	-/9.47 (-/9)	-/25.38 (-/38)	-/10.50 (-/12)	-/26.78 (-/35)
	Liu ZR 2013	Beijing	2010	2469	967/1502	-	19.85/30.78 (49/76)	12.41/21.72 (12/21)	24.63/36.62 (37/55)	-	-
	Wang WQ 2013	Fujian	2010	10764	4957/5807	8588/2176	1.21/1.39 (13/15)	1.01/- (5/-)	1.38/- (8/-)	1.28/- (11/-)	0.92/- (2/-)
	Liu J 2012	Henan	2011	29636	15042/14594	14731/14905	0.74/0.91 (22/27)	-	-	-	-
Post-traumatic stress disorder	Li T 2013	Ningxia	2012	4156	1766/2390	0/41576	24.06/42.59 (100/177)	-	-	-	-
	M R Phillips 2009	Zhejiang	2001	14639	7176/7463	4824/9815	3.62/- (53/-)	2.09/- (15/-)	5.09/- (38/-)	4.56/- (22/-)	3.16/- (31/-)
		Qinghai	2002	11178	5652/5526	2632/8546	0.98/- (11/-)	-	-	-	-
		Shandong	2004	22718	10457/12261	5660/17059	0.40/- (9/-)	-	-	-	-
		Gansu	2005	10249	5517/4730	1645/8604	1.85/- (19/-)	-	-	-	-
		Shandong	2005	4776	2211/2565	2380/2396	1.05/- (5/-)	-	-	-	-
	Lee S 2007	Beijing/ Shanghai	2001	1628	-	-	-/3.07 (-/5)	-	-	-	-
	Liu SM 2012	Tibet	2003	1756	-	-	-/2.85 (-/5)	-	-	-	-
	Li KQ 2007	Hebei	2004	20716	10343/10373	2669/18047	3.19/5.02 (66/104)	2.71/- (28/-)	3.66/- (38/-)	1.50/- (4/-)	3.44/- (62/-)
	Ruan Y 2010	Yunnan	2005	5033	2416/2617	2432/2601	2.58/6.56 (13/33)	-/6.62 (-/16)	-/6.50 (-/17)	-/3.29 (-/8)	-/9.61 (-/25)
	Zhao ZH 2009	Guangdong	2006	7418	3226/4192	5544/1874	0.94/3.1 (7/23)	-	-	-	-
	Wei B 2010	Guangxi	2007	18219	9196/9023	7028/11191	0.22/0.22 (4/4)	-/0.43 (-/4)	-/0.00 (-/0)	-/0.00 (-/0)	-/0.36 (-/4)
	Yu JC 2010	Guangdong	2009	2707	1300/1407	1902/805	0/2.59 (0/7)	-/0.00 (-/0)	-/4.98 (-/7)	-/2.63 (-/5)	-/2.48 (-/2)
	Fang X 2011	Fujian	2009	9986	5079/4907	3746/6204	1.20/- (12/-)	-	-	-	-
	Chen XL 2012	Shannxi	2010	2447	950/1497	1143/1312	0.00/0.00 (0/0)	-/0.00 (-/0)	-/0.00 (-/0)	-/0.00 (-/0)	-/0.00 (-/0)
	Wang WQ 2013	Fujian	2010	10764	4957/5807	8588/2176	0.37/1.11 (4/12)	-	-	-	-
	Liu J 2012	Henan	2011	29636	15042/14594	14731/14905	0.27/0.44 (8/13)	-	-	-	-

Subtypes	Study	Location	Year	Sample			Current/Life-time prevalence (%)						
				overall	male/female	urban/rural	overall (n)	male (n)		female (n)		urban (n)	rural (n)
M R Phillips 2009	Zhejiang	2001	14639	7176/7463	4824/9815		0.34/- (5/-)	0.56/- (4/-)		0.13/- (1/-)	0.62/- (3/-)	0.20/- (2/-)	
	Qinghai	2002	11178	5652/5526	2632/8546		0.18/- (2/-)	-	-	-	-	-	
	Shandong	2004	22718	10457/12261	5660/17059		0.48/- (11/-)	-	-	-	-	-	
	Gansu	2005	10249	5517/4730	1645/8604		1.37/- (14/-)	-	-	-	-	-	
	Shandong	2005	4776	2211/2565	2380/2396		0.63/- (3/-)	-	-	-	-	-	
Obsessive compulsive disorder	Li KQ 2007	Hebei	2004	20716	10343/10373	2669/18047	1.40/1.54 (29/32)	1.26/- (13/-)	1.54/- (16/-)	2.62/- (7/-)	1.22/- (22/-)		
	Ruan Y 2010	Yunnan	2005	5033	2416/2617	2432/2601	0.99/1.99 (5/10)	-/1.24 (-/3)	-/2.67 (-/7)	-/1.64 (-/4)	-/2.31 (-/6)		
	Zhang XN 2010	Liaoning	2007	5059	2314/2745	3204/1855	-/0.79 (-/4)	-/0.86 (-/2)	-/0.73 (-/2)	-/0.31 (-/1)	-/1.62 (-/3)		
	Yu JC 2010	Guangdong	2009	2707	1300/1407	1902/805	1.11/5.17 (3/14)	-/4.62 (-/6)	-/5.69 (-/8)	-/4.73 (-/9)	-/6.21 (-/5)		
	Fang X 2011	Fujian	2009	9986	5079/4907	3746/6240	1.40/- (14/-)	-	-	-	-		
	Chen XL 2012	Shannxi	2010	2447	950/1497	1143/1309	3.27/10.22 (8/25)	-/5.26 (-/5)	-/13.36 (-/20)	-/8.75 (-/10)	-/11.48 (-/15)		
	Liu ZR 2013	Beijing	2010	2469	967/1502	-	7.70/25.11 (19/62)	6.20/16.55 (6/16)	9.32/30.63 (14/46)	-	-		
	Wang WQ 2013	Fujian	2010	10764	4957/5807	8588/2176	0.28/0.56 (3/6)	-	-	-	-		
	Liu J 2012	Henan	2011	29636	15042/14594	14731/14905	0.64/0.88 (19/26)	-	-	-	-		
	Li T 2013	Ningxia	2012	4156	1766/2390	0/41576	3.61/7.46 (15/31)	-	-	-	-		

**Table S2.** Literature quality score scale for assessing risk of bias

References	Year	Location	response rate (%)	items					Total scores
				S1*	S2*	S3*	P1*	P2*	
M R Phillips 2009	2001	Zhejiang	97.50	2	2	2	2	2	10
	2002	Qinghai	93.14	2	2	2	2	2	10
Lee S 2007	2004	Shandong	94.62	2	2	2	2	2	10
	2005	Gansu	90.23	2	2	2	2	2	10
Ma X 2009	2005	Shandong	99.50	2	2	2	2	2	10
	2001	Beijing/shanghai	74.8/74.6	2	2	2	2	2	10
Liu SM 2012	2003	Beijing	94.56	2	2	2	2	2	10
	2003	Tibet	above 90	2	2	2	2	1	9
Su KQ 2007	2004	Hebei	86.32	2	1	2	2	2	9
	2004	Liaoning	86.09	2	2	2	2	2	10
Li N 2008	2005	Yunnan	82.60	2	1	1	2	2	8
	2005	Guangdong	79.98	2	1	1	2	2	8
Zhao ZH 2009	2006	Guangdong	-	2	2	0	2	2	8
	2007	Liaoning	95.81	2	2	2	2	2	10
Wei B 2010	2007	Guangxi	85.58	2	2	2	2	2	10
	2009	Guangdong	82.21	2	2	1	2	2	9
Fang X 2011	2009	Fujian	86.58	2	2	2	2	2	10
	2010	Hebei	85.82	2	2	2	2	2	10
Chen XL 2012	2010	Shannxi	69.87	2	2	0	2	2	8
	2010	Beijing	72.90	2	2	1	2	2	9
Liu ZR 2013	2010	Beijing	80.70	2	1	1	2	1	7
	2010	Fujian	89.17	2	1	2	2	2	9
Liu J 2012	2011	Henan	98.79	2	2	2	2	2	10
	2011	Guangdong	-	2	2	0	2	1	7
Li T 2013	2012	Ningxia	88.80	2	2	2	2	2	10

S1\*: Selection (sample population)

S2\*: Selection (sample size)

S3\*: Selection (participation)

P1\*: Performance bias (outcome assessment)

P2\*: Performance bias(analytical method to control for bias)

**Table S3.** Meta-regression for prevalence of ADs

Variables	current prevalence					lifetime prevalence				
	Covariates	No. study	P*	Coef. (95%CI)	P-value	Covariates	No. study	P*	Coef. (95%CI)	P-value
year	-	17	24.47	-0.13 (-2.39,2.12)	0.90	-	13	41.12	1.41 (-7.14,9.97)	0.72
sample size	-	17	24.47	-0.00 (-0.00,0.00)	0.47	-	13	41.12	-0.00 (-0.00,0.00)	0.39
	Zhejiang(Ref.)	1	21.86			Yunnan(Ref.)	1	64.38		
	Beijing	2	31.83	9.88 (-20.89,40.65)	0.59	Beijing	2	50.85	-12.99 (-174.25,148.27)	0.76
	Fujian	1	5.57	-16.29 (-51.18, 18.60)	0.45	Beijing/ Shanghai	1	47.91	-16.47 (-203.46,170.52)	0.74
	Gansu	1	29.95	8.09 (-27.13,43.31)	0.70	Fujian	1	7.90	-56.48 (-242.11,129.15)	0.32
	Guangdong	1	5.48	-16.38 (-51.53,18.77)		Guangdong	1	5.90	108.14 (-79.16,295.44)	0.13
	Guangxi	1	1.26	-20.60 (-55.42,14.22)	0.35	Guangxi	1	1.26	-63.12 (-248.72,122.48)	0.28
province	Hebei	2	34.60	13.08 (-17.63,43.79)	0.50	Hebei	1	29.66	-34.72 (-220.92,151.48)	0.51
	Henan	1	8.27	-13.59 (-53.96,54.70)	0.99	Henan	1	10.87	-53.51 (-239.12,132.10)	0.34
	Liaoning	1	22.23	0.37 (-34.68,35.42)	0.15	Liaoning	2	42.75	-21.65 (-182.66,139.36)	0.62
	Ningxia	1	57.51	35.65 (-1.01,72.31)	0.91	Ningxia	1	172.52	108.14 (-79.16,295.44)	0.13
	Qinghai	1	19.59	-2.27 (-37.33,32.79)	0.85	Tibet	1	19.36	-45.02 (-231.15,141.11)	0.41
	Shandong	2	34.57	12.88 (-17.69,43.46)	0.88					
	Tibet	1	18.79	4.57 (-30.98,40.12)	0.83					
	Yunnan	1	26.43	21.86 (-2.91,46.63)	0.19					
territorial level	provincial(Ref.)	9	27.37			provincial(Ref.)	6	59.13		
	city	8	21.10	-6.00 (-21.27,9.27)	0.42	city	7	26.21	-31.85 (-86.51,22.79)	0.23
	7(Ref.)	2	18.68			9(Ref.)	2	39.30		
Risk of bias assessment	8	1	26.43	7.75 (-34.60,50.10)	0.70	7	2	24.65	-14.75 (-131.73,102.22)	0.78
	9	4	24.79	6.08 (-34.60,50.11)	0.67	8	1	64.38	24.97 (-118.40,168.35)	0.70
	10	10	25.31	6.72 (-34.60,50.12)	0.60	10	8	42.62	4.85 (-87.73,97.43)	0.91
diagnostic tool	SCID(Ref.)	10	24.20			SCID(Ref.)	6	19.36		
	CIDI	7	24.98	0.68 (-15.16,16.53)	0.93	CIDI	7	61.30	41.81 (-9.74,93.38)	0.10
identity of investigators	psychiatrist(Ref.)	13	23.11			psychiatrist(Ref.)	9	26.84		
	others	4	28.96	5.80 (-12.31,23.91)	0.51	others	4	73.04	44.88 (-10.94,100.70)	0.10

ADs: anxiety disorders,

No. study =number of studies, P\* = Estimated prevalence was calculated separately, Coef. = Regression coefficient,

Ref. = Reference category

**Table S4a.** Results of sensitivity analysis: the results of sensitivity analysis in ADs and its subtypes.

Subtypes	Current prevalence			Lifetime prevalence			
		Estimate	95% CI		Estimate	95% CI	
ADs	Combined	7.75	(7.36, 8.14)	Combined	5.73	(5.30,6.17)	
	Wei B 2010*	16.54	(15.94, 17.14)		Wei B 2010*	16.77	(15.97,17.58)
GAD	Combined	1.99	(1.79, 2.19)	Combined	1.77	(1.55, 2.00)	
	Wei B 2010*	2.65	(2.40, 2.89)		Wei B 2010*	2.56	(2.27, 2.85)
	Wang WQ 2013*	2.49	(2.26, 2.72)	Wang WQ 2013*	2.36	(2.09, 2.63)	
	Liu J 2012*	1.79	(1.58, 2.00)		Liu J 2012*	1.46	(1.23,1.69)
NSAD	Combined	2.51	(2.25, 2.77)	-	-	-	
	Liu J 2012*	6.35	(5.88, 6.82)				
PD	Combined	0.59	(0.47, 0.70)	Combined	0.76	(0.60, 0.93)	
	None				Wang WQ 2013*	1.04	(0.82, 0.93)
					Liu J 2012 *	0.74	(0.57, 0.90)
SP	Combined	0.00	(0.00, 0.01)	Combined	0.23	(0.14, 0.31)	
	M R Phillips 2009*	0.23	(0.16, 0.30)		Wei B 2010*	0.60	(0.45, 0.75)
AP	Combined	0.01	(-0.01, 0.02)	Combined	0.00	(-0.01, 0.02)	
	M R Phillips 2009*	0.02	(0.00, 0.04)		Lee S 2007*	0.24	(0.14, 0.33)
SPP	Combined	0.00	(0.00, 0.01)	Combined	2.09	(1.80, 2.38)	
	None				Liu J 2012*	5.28	(4.72, 5.85)
PTSD	Combined	0.01	(0.00, 0.03)	Combined	0.02	(-0.01, 0.04)	
	None				Liu J 2012*	0.58	(0.43, 0.73)
OCD	Combined	0.53	(0.42, 0.65)	-	-	-	
	None						

**Table S4b.** Results of sensitivity analysis: the characteristics of the studies those influenced the pooled results.

References*	quality score	subtypes	OR <sub>(M:F)</sub> ; OR 95%CI	OR <sub>(U:R)</sub> ;OR 95%CI
Wei B 2010*	10	ADs-current	-	-
		GAD-current	-	-
		ADs-lifetime	1.28; (0.56, 2.91)	0.85; (0.36, 2.00)
Liu J 2012*	10	GAD-lifetime	0.82; (0.25, 2.68)	0.91; (0.27, 3.11)
		SP-lifetime	2.94; (0.12, 72.27)	4.78; (0.19, 117.29)
		GAD-current	-	-
		NSAD-current	-	-
		GAD-lifetime	-	-
Wang WQ 2013*	9	PD-lifetime	-	-
		SPP-lifetime	-	-
		PTSD-lifetime	-	-
M R Phillips 2009*	10	GAD-current	-	-
		GAD-lifetime	-	-
		PD-lifetime	-	-
Lee S 2007*	10	SP-current	-	-
		AP-current	-	-
Lee S 2007*	10	AP-lifetime	-	-

\*result was significantly changed when the study being omitted.

ADs: anxiety disorders; GAD: generalized anxiety disorder; NSAD: non-specific anxiety disorder;

PD: panic disorder; SP: social phobia; AP: agoraphobia; PTSD: post-traumatic stress disorder;

-current: current prevalence

-lifetime: lifetime prevalence

OR: Odds Ratio

M:F: Males versus Females

U:R : Urban versus Rural

**Table S5.** Heterogeneity and publication bias of anxiety disorders

items	statistic methods	subtypes	current prevalence			lifetime prevalence		
			p value	95%CI	I <sup>2</sup> (%)	p value	95%CI	I <sup>2</sup> (%)
Heterogeneity	Stata	ADs	<0.001	(17.97,30.98)	99.50	<0.001	(31.09,51.15)	99.60
		GAD	<0.001	(3.72,6.63)	97.70	<0.001	(3.17,6.14)	96.80
		NSAD	<0.001	(4.49,12.10)	99.10	<0.001	(0.43,13.35)	99.30
		PD	<0.001	(0.74,1.43)	85.20	<0.001	(2.46,4.41)	94.80
		SP	<0.001	(0.48,0.92)	91.90	<0.001	(3.24,4.99)	97.50
		AP	<0.001	(0.10,0.28)	91.30	<0.001	(1.56,2.74)	98.20
		SPP	<0.001	(0.49,0.77)	98.00	<0.001	(15.18,24.04)	99.00
		PTSD	<0.001	(0.35,0.63)	93.80	<0.001	(1.23,2.43)	95.60
		OBD	<0.001	(0.58,1.22)	81.30	<0.001	(2.04,4.31)	93.40
Publication bias	Funnel plots	ADs	0.00	(1087.05,2479.52)	-	0.00	(612.26,2126.49)	-
		GAD	0.00	(1721.66, 4951.85)	-	0.00	(1457.11, 4039.40)	-
		NSAD	0.00	(2084.80, 4279.57)	-	-	-	-
		PD	0.00	(1804.64, 6400.28)	-	0.00	(1489.73, 4961.80)	-
		SP	0.00	(21844.59, 56808.9)	-	0.01	(1565.00, 9706.32)	-
		AP	0.00	(22122.10, 67184.13)	-	0.02	(4684.15, 53335.10)	-
		SPP	0.02	(4955.80, 40300.19)	-	0.00	(842.66, 2269.31)	-
		PTSD	0.00	(19737.93, 44537.53)	-	0.02	(5159.28, 39643.12)	-
		OBD	0.01	(944.89, 6078.47)	-	-	-	-
Egger's tests		ADs	0.00	(10.15,21.78)	-	0.00	(8.87,24.39)	-
		GAD	0.00	(5.19, 13.02)	-	0.00	(2.90, 9.76)	-
		NSAD	0.01	(4.81, 20.86)	-	-	-	-
		PD	0.00	(1.89, 5.34)	-	0.00	(3.32, 6.85)	-
		SP	0.00	(2.03, 4.07)	-	0.00	(3.91, 9.03)	-
		AP	0.00	(1.33, 4.18)	-	0.03	(0.78, 9.29)	-
		SPP	0.00	(5.07, 8.41)	-	0.00	(6.79, 14.81)	-
		PTSD	0.00	(2.75, 5.23)	-	0.00	(2.22, 6.38)	-
		OBD	0.00	(2.12, 4.78)	-	-	-	-

ADs: anxiety disorders; GAD: generalized anxiety disorder; NSAD: non-specific anxiety disorder;

PD: panic disorder; SP: social phobia; AP: agoraphobia; SPP: specific phobia;

PTSD: post-traumatic stress disorder; OBD: obsessive compulsive disorder

## **Data S1:** The excluded studies in this meta-analysis

### **Excluded studies**

We excluded 281 studies for different reasons, and details were described as below:

- ❖ Studies based on specific populations, regions or situations: 198
    - a. Seniors: 9<sup>1-9</sup>
    - b. Children/ adolescents: 8<sup>10-17</sup>
    - c. Graduate students/Undergraduate students/ Primary, middle or high school students: 26<sup>18-43</sup>
    - d. The troops: 14<sup>44-57</sup>
    - e. Populations suffered from earthquake: 45<sup>58-102</sup>
    - f. Patients in hospital: 48<sup>103-150</sup>
    - g. Criminals: 7<sup>151-157</sup>
    - h. Population related with mining / steel/ railway industry: 9<sup>158-166</sup>
    - i. Other kinds of special populations: 24<sup>167-190</sup>
    - j. Review on special populations: 8<sup>191-198</sup>
  - ❖ Review: 14<sup>199-212</sup>
  - ❖ investigation time before 2000: 10<sup>213-222</sup>
  - ❖ No available data for the prevalence calculation: 2<sup>223,224</sup>
  - ❖ Not random sampling: 1<sup>225</sup>
  - ❖ county level: 4<sup>226-229</sup>
  - ❖ village level: 1<sup>230</sup>
  - ❖ Studies did not use structure diagnostic interviews with international diagnostic criteria as diagnostic tools: 2<sup>231,232</sup>
  - ❖ Data duplicated with included articles: 49
- including the following types :
- 1) The study<sup>233</sup> we included was 4-provincial investigation, which contained in the five studies<sup>234-238</sup> we excluded in each four provinces. 6 city-level studies<sup>239-244</sup> were included in the province-wide study<sup>238</sup> conducted in Shandong.
  - 2) Two studies<sup>245,246</sup> in Beijing and Shanghai were excluded for because they were repeated with one study we included<sup>247</sup>.
  - 3) One study<sup>248</sup> in Beijing duplicated with one paper included<sup>249</sup> were excluded
  - 4) In Hebei province, the provincial study<sup>250</sup> we included contained 7 studies<sup>251-257</sup> of Baoding city, and repeat with another 7 studies<sup>258-264</sup>.
  - 5) In Liaoning province, 7 studies<sup>265-271</sup> were contained in and the province-wide study<sup>272</sup> included in the meta-analysis. Additionally, in Dalian city, there were 2 studies<sup>273,274</sup> were repetitions of the study included<sup>275</sup>.
  - 6) In Guangxi, there were 6 studies<sup>276-281</sup> we excluded for that they were the same studies with a included study<sup>282</sup>.
  - 7) In Yunnan, the study by Lu et al.<sup>283</sup>,was repeated with the study we included in<sup>284</sup>.
  - 8) In Fujian, Xiamen city, a study<sup>285</sup> was repeated with a included study<sup>286</sup>.
  - 9) In Guangdong, a study in Yunfu city<sup>287</sup> was contained by the included study<sup>288</sup>; in Shenzhen city, a study<sup>289</sup> was excluded for that it was the same study with an included study<sup>290</sup>.

10) In Ningxia, a study<sup>291</sup> was contained by a included study<sup>292</sup>.

11) In Tibet, we excluded a study<sup>293</sup> for that it was the same studies with an included study<sup>294</sup>.

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